EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S48	11	(US-6339841-$ or US-7131121-$ or US-5815718-$ or US-5999732-$ or US-6253215-$ or US-6223346-$ or US-6584612-$ or US-6970948-$ or US-6983460-$ or US-6883163-$ or US-6779732-$).did.	USPAT	OR	ON	2007/03/07 15:28
S49	11	suite adj file	USPAT	OR	ON	2007/03/07 15:29
S50	0	S48 and S49	USPAT	OR	ON	2007/03/07 15:29
S51	0	seraliz$5 with class	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:42
S52	826	serializ$5 with class	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:42
S53	13	serializ$5 with class same resolv$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:01
S54	304882	resolv$3 with2 (constant adj (pool table))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:03
S55	901	(717/162-167).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/08 12:03
S56	321	S54 and S55	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:03
S57	303794	resolv$3 with2 (constant adj pool)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:04

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S58	321	S55 and S57	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:04
S59	303549	resolv$3 with2 (constant adj pool) same load$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:21
S60	313	S56 and S59	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:05
S61	303441	resolv$3 with2 (without with constant adj pool) same load$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:22
S62	303441	resolv$3 with2 (without adj constant adj pool) same load$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:22
S63	303441	resolv$3 with2 (without adj2 constant adj pool)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:22
S64	8	(without adj2 constant adj pool)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:22

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2280	((717/166) or (713/2) or (719/332)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/08 14:16
L2	3	resolv$3 same (without with constant adj pool) same load$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 14:16
L3	8	resolv$3 same (without with constant adj pool)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 14:16
L4	130	resolv$3 same (constant adj pool)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 14:16
L5	2990	((717/162-167) or (713/2) or (719/332)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/08 14:17
L6	27	4 and 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 14:16
L7	145	(717/166).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/08 14:17

Terms used **without constant pool** Found **90,697** of **198,310**

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1 Language and Implementation: A low-footprint class loading mechanism for embedded Java virtual machines
Christophe Rippert, Alexandre Courbot, Gilles Grimaud
June 2004 **Proceedings of the 3rd international symposium on Principles and practice of programming in Java PPPJ '04**
Publisher: Trinity College Dublin
Full text available: pdf(144.01 KB) Additional Information: full citation, abstract, references

This paper shows that it is possible to dramatically reduce the memory consumption of classes loaded in an embedded Java virtual machine without reducing its functionalities. We describe how to pack the constant pool by deleting entries which are only used during the class loading process. We present some benchmarks which demonstrate the efficiency of this mechanism. We finally suggest some additional optimizations which can be applied if some restrictions to the functionalities of the virtual m ...

2 Java bytecode compression for low-end embedded systems
Lars Ræder Clausen, Ulrik Pagh Schultz, Charles Consel, Gilles Muller
May 2000 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 22 Issue 3
Publisher: ACM Press
Full text available: pdf(241.04 KB) Additional Information: full citation, abstract, references, citings, index terms, review

A program executing on a low-end embedded system, such as a smart-card, faces scarce memory resources and fixed execution time constraints. We demonstrate that factorization of common instruction sequences in Java bytecode allows the memory footprint to be reduced, on average, to 85% of its original size, with a minimal execution time penalty. While preserving Java compatibility, our solution requires only a few modifications which are straightforward to implement in any JVM used in a low-e ...

Keywords: Java bytecode, code compression, embedded systems

3 Language representations: Virtual machine showdown: stack versus registers
Yunhe Shi, David Gregg, Andrew Beatty, M. Anton Ertl
June 2005 **Proceedings of the 1st ACM/USENIX international conference on Virtual execution environments VEE '05**
Publisher: ACM Press
Full text available: Additional Information:

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IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
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IEEE JNL	IEEE Journal or Magazine
IET JNL	IET Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

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Sheng-De Wang; Lin, Y.;
Parallel and Distributed Systems, 2001. ICPADS 2001. Proceedings. Eighth In Conference on
26-29 June 2001 Page(s):467 - 474
Digital Object Identifier 10.1109/ICPADS.2001.934855
AbstractPlus | Full Text: PDF(556 KB) IEEE CNF
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2. **A study of code reuse and sharing characteristics of Java applications**
Conte, M.T.; Trick, A.R.; Gyllenhaal, J.C.; Hwu, W.W.;
Workload Characterization: Methodology and Case Studies, 1998
29 Nov. 1998 Page(s):27 - 35
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3. **A study on an efficient pre-resolution method for embedded Java system**
Yoon-Sim Yang; Min-Sik Jin; Sung-Ik Jun; Min-Soo Jung;
Virtual Environments, Human-Computer Interfaces and Measurement Systems (VECIMS). 2004 IEEE Symposium on
12-14 July 2004 Page(s):20 - 24
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